

**ABSTRACT**

Provided is a method for regulating the concentration of water in the acid feed stream in a process for the production of HF by the reaction with a fluorine containing material, the  
5 method comprising:

- (a) providing an acid feed stream comprising bound water and free water;
- (b) estimating the concentration of bound water and free water in the acid feed stream by providing a probe in said feed stream; and
- (c) adjusting the concentration of free water in said process stream based on said estimating step.

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